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#2 OIPE

RAW SEQUENCE LISTING

DATE: 12/05/2001

PATENT APPLICATION: US/09/995,804

TIME: 10:41:32

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I995804.raw

ENTERED

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Engler, Jeffrey A
 7 Lee, Jae Hwy
 8 Collawan, James F
 9 Moore, Bryan A

11 (ii) TITLE OF INVENTION: Receptor-Mediated Uptake of Peptides
 12 that Bind the Human Transferrin Receptor

14 (iii) NUMBER OF SEQUENCES: 13

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: Hendricks and Assoc.
 18 (B) STREET: P.O. Box 2509
 19 (C) CITY: Fairfax
 20 (D) STATE: VA
 21 (E) COUNTRY: U.S.A
 22 (F) ZIP: 22031

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk
 26 (B) COMPUTER: IBM PC compatible
 27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/09/995,804
 C--> 32 (B) FILING DATE: 29-Nov-2001
 33 (C) CLASSIFICATION:

35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: Hendricks, Glenna M
 37 (B) REGISTRATION NUMBER: 32,535
 38 (C) REFERENCE/DOCKET NUMBER: engler1

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 703/425-8405
 42 (B) TELEFAX: 703/425-8406

45 (2) INFORMATION FOR SEQ ID NO: 1:

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 7 amino acids
 49 (B) TYPE: amino acid
 50 (C) STRANDEDNESS: single
 51 (D) TOPOLOGY: unknown

53 (ii) MOLECULE TYPE: peptide

55 (iii) HYPOTHETICAL: NO

57 (iv) ANTI-SENSE: NO

61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

63 His Ala Ile Tyr Pro Arg His
 64 1 5

66 (2) INFORMATION FOR SEQ ID NO: 2:

68 (i) SEQUENCE CHARACTERISTICS:

69 (A) LENGTH: 12 amino acids

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70      (B) TYPE: amino acid
71      (C) STRANDEDNESS: single
72      (D) TOPOLOGY: unknown
74      (ii) MOLECULE TYPE: peptide
76      (iii) HYPOTHETICAL: NO
78      (iv) ANTI-SENSE: NO
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
84      Thr His Arg Pro Pro Met Trp Ser Pro Val Trp Pro
85      1          5          10
87 (2) INFORMATION FOR SEQ ID NO: 3:
89      (i) SEQUENCE CHARACTERISTICS:
90          (A) LENGTH: 7 amino acids
91          (B) TYPE: amino acid
92          (C) STRANDEDNESS: single
93          (D) TOPOLOGY: unknown
95      (ii) MOLECULE TYPE: peptide
97      (iii) HYPOTHETICAL: NO
99      (iv) ANTI-SENSE: NO
103     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
105     Ile Arg His Pro His Tyr Ala
106     1          5
108 (2) INFORMATION FOR SEQ ID NO: 4:
110     (i) SEQUENCE CHARACTERISTICS:
111         (A) LENGTH: 12 amino acids
112         (B) TYPE: amino acid
113         (C) STRANDEDNESS: single
114         (D) TOPOLOGY: unknown
116     (ii) MOLECULE TYPE: peptide
118     (iii) HYPOTHETICAL: NO
120     (iv) ANTI-SENSE: NO
124     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
126     Pro Trp Arg Pro Ser His Pro Val Trp Met Pro Thr
127     1          5          10
129 (2) INFORMATION FOR SEQ ID NO: 5:
131     (i) SEQUENCE CHARACTERISTICS:
132         (A) LENGTH: 18 base pairs
133         (B) TYPE: nucleic acid
134         (C) STRANDEDNESS: single
135         (D) TOPOLOGY: unknown
137     (ii) MOLECULE TYPE: DNA (genomic)
139     (iii) HYPOTHETICAL: NO
141     (iv) ANTI-SENSE: NO
145     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
147 TGGGATTTTG CTAAAAAC
149 (2) INFORMATION FOR SEQ ID NO: 6:
151     (i) SEQUENCE CHARACTERISTICS:
152         (A) LENGTH: 22 base pairs
153         (B) TYPE: nucleic acid
154         (C) STRANDEDNESS: single

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155          (D) TOPOLOGY: unknown
157      (ii) MOLECULE TYPE: DNA (genomic)
159      (iii) HYPOTHETICAL: NO
161      (iv) ANTI-SENSE: NO
165      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
167 GTATGGGATT TTGCTAAACA AC                               22
169 (2) INFORMATION FOR SEQ ID NO: 7:
171      (i) SEQUENCE CHARACTERISTICS:
172          (A) LENGTH: 28 base pairs
173          (B) TYPE: nucleic acid
174          (C) STRANDEDNESS: single
175          (D) TOPOLOGY: unknown
177      (ii) MOLECULE TYPE: DNA (genomic)
179      (iii) HYPOTHETICAL: NO
181      (iv) ANTI-SENSE: NO
185      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
187 TCTAGATCTG ATGAGTAAAG GAGAAGAA                           28
189 (2) INFORMATION FOR SEQ ID NO: 8:
191      (i) SEQUENCE CHARACTERISTICS:
192          (A) LENGTH: 54 base pairs
193          (B) TYPE: nucleic acid
194          (C) STRANDEDNESS: single
195          (D) TOPOLOGY: unknown
197      (ii) MOLECULE TYPE: DNA (genomic)
199      (iii) HYPOTHETICAL: NO
201      (iv) ANTI-SENSE: NO
205      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
207 TTAAAGCTTT TAATGGCGCG GATAGATCGC ATGTTTGTAG AGCTCATCCA TGCC       54
209 (2) INFORMATION FOR SEQ ID NO: 9:
211      (i) SEQUENCE CHARACTERISTICS:
212          (A) LENGTH: 68 base pairs
213          (B) TYPE: nucleic acid
214          (C) STRANDEDNESS: single
215          (D) TOPOLOGY: unknown
217      (ii) MOLECULE TYPE: DNA (genomic)
219      (iii) HYPOTHETICAL: NO
221      (iv) ANTI-SENSE: NO
225      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
227 TAAAGCTTTT ACGGCCACAC CGGGCTCCAC ATCGGCGGGC GGTGGGTTTT GTAGAGCTCA   60
229 TCCATGCC                                               68
231 (2) INFORMATION FOR SEQ ID NO: 10:
233      (i) SEQUENCE CHARACTERISTICS:
234          (A) LENGTH: 29 base pairs
235          (B) TYPE: nucleic acid
236          (C) STRANDEDNESS: single
237          (D) TOPOLOGY: unknown
239      (ii) MOLECULE TYPE: DNA (genomic)
241      (iii) HYPOTHETICAL: NO
243      (iv) ANTI-SENSE: NO

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247      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
249 GATCCCATGC GATCTATCCG CGCCATTAA                               29
251 (2) INFORMATION FOR SEQ ID NO: 11:
253      (i) SEQUENCE CHARACTERISTICS:
254          (A) LENGTH: 29 base pairs
255          (B) TYPE: nucleic acid
256          (C) STRANDEDNESS: single
257          (D) TOPOLOGY: unknown
259      (ii) MOLECULE TYPE: DNA (genomic)
261      (iii) HYPOTHETICAL: NO
263      (iv) ANTI-SENSE: YES
267      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
269 GATCTTAATG GCGCGGATAG ATCGCATGG                               29
271 (2) INFORMATION FOR SEQ ID NO: 12:
273      (i) SEQUENCE CHARACTERISTICS:
274          (A) LENGTH: 44 base pairs
275          (B) TYPE: nucleic acid
276          (C) STRANDEDNESS: single
277          (D) TOPOLOGY: unknown
279      (ii) MOLECULE TYPE: DNA (genomic)
281      (iii) HYPOTHETICAL: NO
283      (iv) ANTI-SENSE: NO
287      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
289 GATCCACCCA CCGCCCGCCG ATGTGGAGCC CGGTGTGGCC GTAA           44
291 (2) INFORMATION FOR SEQ ID NO: 13:
293      (i) SEQUENCE CHARACTERISTICS:
294          (A) LENGTH: 44 base pairs
295          (B) TYPE: nucleic acid
296          (C) STRANDEDNESS: single
297          (D) TOPOLOGY: unknown
299      (ii) MOLECULE TYPE: DNA (genomic)
301      (iii) HYPOTHETICAL: NO
303      (iv) ANTI-SENSE: YES
307      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
309 GATCTTACGG CCACACGGG CTCCACATCG GCGGGCGGTG GGTG           44

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VERIFICATION SUMMARY

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L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]